CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.07/KRC/CEMENT/2013-14

Date: 19.09.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. K.R. Construction,** Bangalore.
NAME OF THE WORK	:	Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
REFERENCE	:	Job Code : 007-12-000049
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.07/KRC/SAND/2013-14 : 19.09.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **M/s. K.R. Construction,** Bangalore.

Name of Work : Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.

Reference : Job Code : 007-12-000049

Date of Testing : 19.09.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	256	12.80	17.25	82.8	75-100
1.18	390	19.50	36.75	63.3	55-90
600 Micron	486	24.30	61.05	39.0	35-59
300 Micron	423	21.15	82.20	17.8	8-30
150 Micron	298	14.90	97.10	2.9	0-10

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Job No.: CTCE/BBMP/W.No.07/KRC/AGG/2013-14 : 19.09.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **M/s. K.R. Construction,** Bangalore.

Name of Work : Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.

Reference : Job Code : 007-12-000049

Date of Testing : 19.09.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	905	3.62	3.62	96.38	95-100
20	15850	63.40	67.02	32.98	30-70
10	3990	15.96	82.98	17.02	10-35
4.75	3385	13.54	96.52	3.48	0-5

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Job No.: CTCE/BBMP/W.No.07/KRC/STEEL/2013-14 19.09.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**M/s. K.R. Construction,** Bangalore.
Name of the Work	:	Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
Reference	:	Job Code : 007-12-000049
Date of Test	:	19.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRC/STEEL/2013-14 19.09.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**M/s. K.R. Construction,** Bangalore.
Name of the Work	:	Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
Reference	:	Job Code : 007-12-000049
Date of Test	:	19.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/KRC/Paver Block/2013-14

Date: 22.12.2013

TEST REPORT

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**M/s. K.R. Construction,** Bangalore.
Name of the work	:	Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
Reference	:	Job Code : 007-12-000049
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	80.20	80.22
2	02	80.25	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2
1	01	693.5	24,200	28.65
2	02	692.4	24,200	28.61

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Job No.: CTCE/BBMP/W.No.07/KRC/CUBE/2013-14 17.12.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **M/s. K.R. Construction,** Bangalore.
Name of the work	: Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
Reference	: Job Code : 007-12-000049
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.11.2013	17.12.2013	8.190	476.5	21.18
2	19.11.2013	17.12.2013	8.236	489.3	21.75
3	19.11.2013	17.12.2013	8.374	512.6	22.78

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Job No.: CTCE/BBMP/W.No.07/KRC/CUBE/2013-14

17.01.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **M/s. K.R. Construction,** Bangalore.
Name of the work	: Improvements to parking and construction of public toilet block at Sahakaranagara in Ward No.07, BBMP, Bangalore.
Reference	: Job Code : 007-12-000049
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2013	17.01.2014	8.149	715.6	31.80
2	20.12.2013	17.01.2014	8.290	723.2	32.14
3	20.12.2013	17.01.2014	8.360	740.2	32.90

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